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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,865	01/07/2005	Hendrik Hubertus Van Der Meer	NL02 0677 US	4438
24738	7590 02/07/2006		EXAMINER	
	LECTRONICS NORTH	DOTY, HEATHER ANNE		
INTELLECTUAL PROPERTY & STANDARDS 1109 MCKAY DRIVE, M/S-41SJ			ART UNIT	PAPER NUMBER
SAN JOSE,			2813	
			DATE MAILED: 02/07/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/520,865			Application No.	Applicant(a)				
Examiner Heather A. Doty 2813	Office Action Summers			Applicant(s)				
## Heather A. Doty ## Date of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.396a). In no event, however, may a reply be timely filed. Extensions of time may be available under the provisions of 37 CFR 1.396a). In no event, however, may a reply be timely filed. Extensions of time may be available under the provisions of 37 CFR 1.396a). In no event, however, may a reply be timely filed the provisions of 37 CFR 1.396a). In no event, however, may a reply be timely filed the timely filed on 11 NO period will apply admit expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by stabile, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Dice later than three months after the mailing date of this communication, even if timely filed, may reduce any samed patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 07 January 2005. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) 1-12 is/are withdrawn from consideration. 5) □ Claim(s) 1-13 is/are allowed. 6) □ Claim(s) 1-15 is/are rejected. 7) □ Claim(s) 1-15 is/are rejected. 7) □ Claim(s) 1-15 is/are rejected. 8) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 07 January 2005 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the			10/520,865	VAN DER MEER ET AL.				
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1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
See the attached detailed Office action for a list of the certified copies not received.		see the attached detailed Office action for a list	or the defining dopies not reserve	u .				
Attachment(s)	Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:	3) 🔲 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) D Notice of Informal P					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8, 9, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Gilbert et al. (U.S. 5,744,841).

Regarding claim 1, Gilbert et al. teaches a method of forming on a semiconductor substrate (30 in Fig. 3) an electrostatic discharge protecting device together with internal circuitry to be protected by said protecting device, said method comprising the steps of:

- a) forming an offset transistor arrangement in said protecting device (22 in Fig. 3); and
- b) increasing an acceptor concentration at said offset transistor arrangement so as to selectively reduce a breakdown voltage of said offset transistor arrangement (boron implant 32 in Fig. 3; column 2, lines 47-67).

Regarding claim 2, Gilbert et al. teaches the method according to claim 1, wherein said offset transistor arrangement comprises an offset gate NMOS transistor (column 2, lines 58-62).

Regarding claim 3, Gilbert et al. teaches the method according to claim 1, further comprising the step of using a blanket ion implantation to increase said acceptor concentration (column 3, lines 1-4 disclose performing the implantation without a mask).

Regarding claim 8, Gilbert et al. teaches a method according to claim 1, further comprising the step of using an additional ESD photomask and subsequent ion implantation to increase said acceptor concentration at said offset transistor arrangement (column 3, lines 4-9).

Regarding claim 9, Gilbert et al. teaches a method according to claim 8, wherein said additional ESD photomask and subsequent ion implantation are adapted to obtain a clamping effect based on avalanche breakdown (column 4, lines 13-30).

Regarding claim 11, Gilbert et al. teaches an integrated circuit arrangement comprising an electrostatic discharge protecting device and internal circuitry to be protected by said protecting device, wherein said protecting device comprises an offset transistor arrangement having a locally increased acceptor concentration so as to selectively reduce a breakdown voltage of said offset transistor arrangement (Figs. 3-5—internal circuitry not illustrated, but is inherently present, since the purpose of the ESD protection device is to protect the internal circuitry; column 2, lines 47-67; column 3, lines 27-52).

Claims 1, 2, 7, 8, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Hsu et al. (U.S. 6,040,222).

Regarding claim 1, Hsu et al. teaches a method of forming on a semiconductor substrate (50 in Fig. 2) an electrostatic discharge protecting device (56 in Fig. 2) together with internal circuitry (54 in Fig. 2) to be protected by said protecting device, said method comprising the steps of:

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a) forming an offset transistor arrangement in said protecting device (60 in Fig.3); and

b) increasing an acceptor concentration at said offset transistor arrangement so as to selectively reduce a breakdown voltage of said offset transistor arrangement (Fig. 2D; paragraph bridging columns 3 and 4).

Regarding claim 2, Hsu et al. teaches the method according to claim 1, wherein said offset transistor arrangement comprises an offset gate NMOS transistor (column 3, lines 65-66).

Regarding claim 7, Hsu et al. teaches the method according to claim 1, further comprising the step of using a p-LDD photomask modified such that it allows to increase said acceptor concentration at said offset transistor arrangement (photoresist layer 82 in Figs. 2C-2D; column 3, lines 53-61).

Regarding claim 8, Hsu et al. teaches a method according to claim 1, further comprising the step of using an additional ESD photomask and subsequent ion implantation to increase said acceptor concentration at said offset transistor arrangement (photoresist layer 82 in Figs. 2C-2D; column 3, lines 53-61).

Regarding claim 11, Hsu et al. teaches an integrated circuit arrangement comprising an electrostatic discharge protecting device (56 in Fig. 2) and internal circuitry (54 in Fig. 2) to be protected by said protecting device, wherein said protecting device comprises an offset transistor arrangement (60 in Fig. 2A) having a locally increased acceptor concentration so as to selectively reduce a breakdown voltage of said offset transistor arrangement (P+ regions in Fig. 2D).

Claims 1-6, 10, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Wu (U.S. 5, 897, 348).

Regarding claims 1-4, Wu teaches a method of forming on a semiconductor substrate an electrostatic discharge protecting device together with internal circuitry to be protected by said protecting device, said method comprising the steps of:

- a) forming an offset gate NMOS transistor—further limited by claim 2— arrangement in said protecting device (102 in Figs. 1-10); and
- b) increasing an acceptor concentration at said offset transistor arrangement so as to selectively reduce a breakdown voltage of said offset transistor arrangement (blanket ion implantation—further limited by claim 3—indicated by arrows in Fig. 1 cause p LDD regions **106**—further limited by claim 4; column 3, lines 55-61).

Regarding claims 5 and 6, Wu teaches the method according to claim 1, further comprising the step of performing photolithography and a subsequent n-LDD—further limited by claim 6—donor ion implantation at said internal circuitry using a dose sufficient to compensate the later-performed blanket acceptor ion implantation in regular NMOS transistors (Fig 3; column 4, lines 4-14; column 5, lines 57-64).

Regarding claim 10, Wu teaches the method according to claim 1, further comprising the step of performing an additional blanket acceptor ion ESD implantation after formation of an n-LDD structure, wherein an n-LDD ion implantation dose should be high enough to compensate the blanket ESD ion implantation in regular NMOS transistors (column 3, line 49 – column 4, line 14; column 5, lines 57-64).

Regarding claim 11, Wu teaches an integrated circuit arrangement comprising an electrostatic discharge protecting device and internal circuitry to be protected by said protecting device, wherein said protecting device comprises an offset transistor arrangement having a locally increased acceptor concentration so as to selectively reduce a breakdown voltage of said offset transistor arrangement (column 3, lines 49-63).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather A. Doty, whose telephone number is 571-272-8429. The examiner can normally be reached on M-F, 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached at 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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